

AQUACULTURE AND HYDROPONICS: 1968-1978

**BIBLIOGRAPHIES AND
LITERATURE OF AGRICULTURE,
BLA-2, MAY 1979**

**UNITED STATES
DEPARTMENT OF
AGRICULTURE**

**SCIENCE AND
EDUCATION
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Science and Education Administration, Bibliographies and Literature of Agriculture, No. 2, May 1979

Aquaculture and Hydroponics: 1968-1978

Compiled by
Charles N. Bebee
Automated Retrieval Section
National Agricultural Library

Bibliographies and Literature
of Agriculture, BLA-2, May 1979

U.S. Department of Agriculture
Science and Education Administration
Technical Information Systems
Beltsville, Maryland 20705

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PREFACE

Citations for this bibliography were pulled from the AGRICOLA citation database online. They represent:

- Articles, monographs, and series, regardless of language, indexed at the National Agricultural Library since the publication of the January 1970 issues of the Bibliography of Agriculture and the National Agricultural Library Catalog.
- Literature received more than one year after publication is generally not indexed; exceptions are made for important scientific publications.

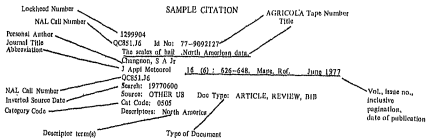
Some duplication of citations occurs because the system requires separate entries for each of the separate files which are incorporated into AGRICOLA. The compiler has attempted purging of known duplicate entries.

The bibliography is a broad subject arrangement by categories as used in The Bibliography of Agriculture; subarrangement is alphabetical by author. A personal author index is included.

User comments and suggestions are welcomed and should be forwarded to the compiler, Charles N. Bebee.

Citations listed on pages 58 - 65 are items from old category codes 1970-1971. These cannot be sorted online and are, therefore, arranged in single alphabetical order.

Richard A. Farley
Deputy Director
Technical Information Systems
Science and Education Administration
U.S. Department of Agriculture



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SEARCH STRATEGY

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1 90 AQUACULTURE?
2 139 WATER(F) CULTURE
3 53 WATER(F) CULTURES
4 263 HYDROPHON?
5 542 1-4/+
6 256 5/HAU
7 ? AQUICULTURE?
8 67 SOILLESS
9 324 6+7+8
10 279 9-12AU
11 353 1-2
12 95 10-11
13 44 WATER(W) CULTURE
14 9 WATER(W) CULTURES
15 8 HYDROOCULTURE?
16 407 1+4+7+8+13+14+15
17 233 16/HAU
18 234 16/HAU
19 2 SOILIN) LESS
20 458 10+15
21 7252 CC-35?
22 13215 CC-35/20
23 2144 CC-35/25
24 3443 CC-35
25 5497 CC-30
26 67250 21-25/+
27 50 20-25
28 418 20-27
29 197 28/HAU
30 0 BEBEE/MORAN

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Print 20/2/1-458

Search Time: 0.389 Prints: 458 Descs.: 20

AGRICULTURAL ECONOMICS AND RURAL SOCIOLOGY

GENERAL AGRICULTURE

1308566 Id No: 78-9007852
SRI-F54 The integration of aquaculture with agriculture

Buck, D W 2 (5): 11-12, 14-16. Nov/Dec 1977
Fisheries

SRI-F54 Search: 1977:200
Source: OMA:US
Cat Code: C505 Doc Type: ARTICLE

091847 Id No: 73-9145878
80 R3212 L'agriculture, technique d'avenir: Hydroponics, crop culture of the future

Cesar, G Rev Mont Suisse 45 (5): 41-42. Feb 1973

80 R3212 Language: FRE
Search: 1973:200
Doc Type: ARTICLE
Cat Code: C505

1051876 Id No: 75-9121107
H01945.A115 L'ultime réserve de l'humanité? Les fermes marines: Maritime farms, the ultimate reserve of humanity? Aquaculture.

Käckenborn, J P Inf Agric (Paris) 461: 34-36. Sept 1975

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Search: 1975:900
Doc Type: ARTICLE
Cat Code: C505

780136 Id No: 73-9227559
309.9 S018 L'aquaculture: Source nouvelle de protéines alimentaires: Aquaculture: A new source of food proteins

Rouzaud, P Bull Soc Sci Hyg Aliment 51 (1): 18-31. 1973
389.9 S018 Language: FRE
Search: 1973:000
Doc Type: ARTICLE

1315940

77-910971 Id No: 77-9910971
Aquaculture economics research needs: report from a workshop to identify aquaculture economics research needs. Atlanta. Georgia -- April 23, 1976

Smith, F J; Roberts, K J
Charleston, SC. S. C. Marine Res Ctr S. C. Sea Grant Pgm.
Tech Rep 5. 43 p Aug 1976
77-910971

Search: 1976:800
Source: DTIC US Doc Type: MONOGRAPH Location: AGE
Cat Code: 1005
Descriptors: Research Needs; Aquaculture

1257025

281.8 EK72 Id No: 77-9053494
Tehnika i ekonomska procena razlicitih nacina uzgoja riba u ribnjacima. 2: Technical and economic estimate of different types of aquaculture in fish ponds. Farm management.

Apostolski, K M; Arsovski, B S
Ekon Poljopr 23 (5): 37-50. Eng. sum. May 1976
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Language: SCR
Search: 1976:500
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Cat Code: 1010
Descriptors: Yugoslavia

1330057

72.8 K522 Id No: 77-9117350
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Pinkhasov, M; Polinov, S
Khlopkovodstvo 8: 38-40. Aug 1976
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Language: RU5
Search: 1976:800
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Cat Code: 1010; 5020

- 1267631 Id No: 77-9910337
Economic comparisons of single cropped and multiple cropped
cotton production systems
Crawford, K. W. Cultural Experiment Station
Mississippi Agric Res 23(3): 6 - Fall 1976
100 ALH
Search: 19760000
Source: EXP STM Doc Type: ARTICLE Location: AGE
Cat Code: 1015
Descriptors: Cost And Returns; Aquaculture; Alabama
- 126913 Id No: 77-9910800
An economic evaluation of aquaculture in Ontario
Lerner, A
Can J Agric Econ 25(1): 74-79 Feb 1977
281-B C16
Search: 19770200
Doc Type: ARTICLE Location: AGE
Cat Code: 1015
Descriptors: Fisheries; Hatchery; Equipment;
Requirements; Feeding; Costs; Marketing; Consumption
- 1269740 Id No: 77-9910819
Costs and losses of soil and soilless media
Poole, M A
Florists Rev 158 (4132): 65, 87-91. Feb 10, 1977
80 W41
Search: 19770210
Source: OTHER US Doc Type: ARTICLE
Cat Code: 1015: 6005
- 1269959 Id No: 77-9910879
Analyzing a new marine business
R. J.
Oregon State University, Extension Service
Sea Grant S G Oregon State Univ Mar Adv Program 34, 8 p
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SH222-A107
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Source: EXT Doc Type: ARTICLE Location: AGE
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Descriptors: Marine Industry; Business Management; Costs And
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- 1222949 Id No: 77-9023443
C5-A1P7 Id No: 77-9023443
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Source: OTHER US Doc Type: ARTICLE
Cat Code: 1030
Descriptors: United States
- 648578 Id No: 72-9123453
41-B AM3
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Poppendieck, G C
Amer Vet Med Assoc J 151 (11): 1467-1478. Ref. Dec 1,
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51-B AM3
Search: 19721201
Doc Type: ARTICLE
Cat Code: 1030
- 885909 Id No: 74-901588
YD172-E57
Critical variables in food-item population dynamics in a
wastewater aquaculture system.. Fishery products.
Peters, E
Environ Pollut Technol Ser EPA U S Environ Prot Agency
560(72-9041: 497-503. June 1974
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Search: 19740600
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Cat Code: 1030
- 848597 Id No: 74-9049127
SH1-A6
Comparison of the economic potential of aquaculture, land
animal husbandry and ocean fisheries: the case of Taiwan. .Pig
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Shang, Y C
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Search: 19730600
Doc Type: ARTICLE
Cat Code: 1030
Descriptors: Taiwan

1287737 Id No: 77-9081696
519.432 Role of freshwater aquaculture in integrated rural development in India
Tripathi, S D
Agric Exp'nd J 9 (12): 31-32. Dec 1976
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Search: 19761200
Doc Type: ARTICLE
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Descriptors: India

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12.408 Fish farming or aquaculture can meet future demand for protein-rich food
Agric Newsl Neth 6: 1-4. 1974
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Search: 19740000
Doc Type: ARTICLE
Cat Code: 1030
Descriptors: India

1181840 Id No: 76-9111663
SH21.15 The International Center for Aquaculture: annual report for fiscal year 1975. Fisheries for growing protein, developing countries, programs.
Alabama, Agricultural Experiment Station, International Center for Aquaculture
 Auburn 63 p. Ref. Dec 23. 1976
SH21.15 19761223
Search: 19761223
Source: EXP STN
Cat Code: 1030; 2505
Descriptors: Alabama

1318284 Id No: 77-9107328
381 J8223 Hydroponic growth of crops -green beans, cantaloupes, cotton, in solutions saturated with .14C-benzo-a-pyrene.
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-Blum, S C; Swarbrick, R E
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381 J8223
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Source: OTHER US
Cat Code: 1505

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Chittling, P
Amer Vet Med Assoc J 161 (11): 1476-1485. Ref. Dec 1. 1972
41.8 AM3
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735188 Id No: 74-9004014
22 IN283 Protein crisis and aquaculture
Prasad, R R
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22 IN283
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Doc Type: ARTICLE
Cat Code: 1510
Descriptors: India

AGRICULTURAL PRODUCTS

1051703 Id No: 76-9121024
501 L846 The aquacultural revolution .Cultivation of marine fish and shellfish for food.
Anderson, J I W
Proc R Soc Lond, B 81(s) Sci 191 (1102): 159-184. Ref. Nov 19. 1976
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- 1292275 Id No: 77-9084432
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 animals - r/w fish, aquaculture.
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 In Food Production and Consumption, A. N. Duckham, J. G. M.
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 Doc Type: ARTICLE
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- 1295158 Id No: 77-9082951 Book Cat: 770072 3
 157.8 #29 No.260562 Proceedings of the first International Conference on
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 Newark, Del.: College of Marine Studies, University of
 Delaware, v.11. 323 p. : ill. ; 23 cm. -- 1976.
 157.8 #29 No.260562
 77007213
 Notes: Sponsored by the Sea Grant College Program, University
 of Delaware in cooperation with the U.S./Japan Aquaculture
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 Search: 19760000
 Source: OTHER US
 Cat Code: 2005 Doc Type: MONOGRAPH
 Descriptors: Aquaculture; Congresses.; Fishes; Feeding And
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- 1192637 Id No: 76-9121050
 S295.M3 Experimental aquaculture of the mussel, (*Mytilus vinidia* L.)
 as a protein source
 Sivalingam, P M; Rajagopalan, K
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 Search: 19750000
 Doc Type: ARTICLE
 Cat Code: 2005
 Descriptors: Malaysia
- 1224165 Id No: 77-9026072
 Sh21.15 The International Center for Aquaculture. Annual report for
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- Alabama, Agricultural Experiment Station
 Auburn, Ala. 1974 (pub. May 1976)
 SH21.15
 Search: 19760500
 Source: EXP STN
 Doc Type: MONOGRAPH
 Cat Code: 2005
 Descriptors: Alabama
- 564904 Id No: 72-9038192
 389.8 V89 Iodine content in vegetables grown in soil and by
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 Ponomarenko, E I
 Vop Pitan 30 (5): 66-68. Ref. Eng. sum. Sept/Oct 1971
 389.8 V89
 Language: Rus
 Search: 19711000
 Doc Type: ARTICLE
 Cat Code: 2030
- 620959 Id No: 72-9102690
 5544.3.H3H3 Feasibility studies in aquaculture
 Hawaii Univ Ext Misc Publ 93: 71-73. July 1972
 S544.3.H3H3
 Search: 19720700
 Source: EXT
 Doc Type: ARTICLE
 Cat Code: 2035
- 620960 Id No: 72-9102691
 5544.3.H3H3 Nutrition problems in aquaculture. -Aquatic animals.
 Bendach, J E
 Hawaii Univ Ext Misc Publ 93: 74-78. July 1972
 S544.3.H3H3
 Search: 19720700
 Source: EXT
 Doc Type: ARTICLE
 Cat Code: 2035

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 5544.3.H3H3 Id No: 72-9102692
 Food as the limit to commercial shrimp aquaculture: A challenge to the feed industry
 Condoner, R D
 Hawaii Univ Ext Misc Publ 93: 80-83. July 1972
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 Source: EXT Doc Type: ARTICLE
 Cat Code: 2035

1240473
 157.8 R29 Id No: 77-9040150
 The role of the feed industry in developing formulated feeds for aquaculture
 MacGrath, W S Jr
 PB U S Natl Tech Inf Serv 200452: 119-123. 1976
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 Cat Code: 2035

1282665
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 Hydroponically grown forage is still with us .Grass machines.
 Ania Nutr Health 32 (2): 18-19. Mar 1977
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 Source: OTHER US
 Cat Code: 2035

ANIMAL SCIENCE

1276747
 105.2 083 Id No: 77-9072050
 Produktiviteit van en produktienoplijkheden in het aquatisch milieu: Productivity of production potential in aquaculture
 Huisman, E A
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 Language: DUT
 Search: 19760700
 Doc Type: ARTICLE
 Cat Code: 2505

1208421
 100 ALIH Id No: 77-9011700
 Reducing use of energy in aquaculture
 McCoy, E M; Boutwell, J L; Jolly, C M

Alabama, Agricultural Experiment Station
 Highlights Agric Res 23 (3): 10. Fall 1976
 100 ALIH
 Search: 19760000
 Source: EXP STN
 Doc Type: ARTICLE
 Cat Code: 2505

1228081
 5441.R26 Id No: 77-9029023
 Aquaculture: toward an ecological approach .Fish ponds on farms.
 McLarney, W O
 In Radical Agriculture: R. Merrill, ed. p. 328-339. Ref. 1976
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 Shell, E M
 Alabama, Agricultural Experiment Station: International Center for Aquaculture
 Auburn 15 p. Ref. 1976 (pub. 1977)
 5421.I5
 Search: 19770500
 Source: EXP STN
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 Cat Code: 2505
 Descriptors: Alabama

1292453
 541.U5 Id No: 77-9084514
 Aquacultural economics bibliography
 Vondruske, J R
 NCMA Tech 123 p. Oct 1976
 541.U5
 Search: 19761000
 Source: OTHER US
 Doc Type: ARTICLE, BIB
 Cat Code: 2505

PLANT SCIENCE

- 500878 Id No: 72-9064271
5890 B5 Dispositive sterile plant cultures hydroponiques; Sterile apparatus for hydroponic cultures. -Roots.
Garcia, J. L. Roussault, M. Roussault, M.
Soil Biol Int News Bull 14: 34-37. Ref. 1971+
5590 B5
Language: Fre
Search: 19710000
Doc Type: ARTICLE
Cat Code: 4005
- 1276199 Id No: 77-9071450
58320 A4 Utility of hydroponic cutting technique for chromosome number and morphology studies in *Arachis*. Peanuts.
Simpson, C E; Davis, K S
J APREA (Am Peanut Res Educ Assoc Inc) 7 (1): 1-3. Sept 1975
58320 A4
Search: 19750900
Source: OTHER US
Cat Code: 4020
- 778283 Id No: 73-9225444
442 B N22 Anatomomorphological features of the roots of cucumbers and tomatoes under conditions of hydroponics
Zelenina, M V
Nauch dokl Vyssh Shk, Biol Nauk 7: 73-77. Ref. 1973
442 B N22
Language: Rus
Search: 19730000
Doc Type: ARTICLE
Cat Code: 4020

- 730327 Id No: 73-9392985 Book Cat: 73012265
SH21.15 Annual report
1st = 1970/71 =
International Center for Aquaculture; Alabama. Agricultural Experiment Station
Auburn, Ala.: Auburn University 1971=
SH21.15
73012265
Note: Project A10/csd 2780
Search: 19710000
Source: EXP STN Doc Type: SERIES
Cat Code: 2505
Descriptors: fish-culture
- VETERINARY MEDICINE
- 969405 Id No: 75-9039504
41 B AM3 The challenge of aquaculture for veterinarians
Miller, M R
J Am Vet Med Assoc 166 (8): 790-791. Apr 15. 1975
41 B AM3
Search: 19750415
Doc Type: ARTICLE
Cat Code: 3005

FORESTRY

- 931786 Id No: 75-9014719
99.9 C324 *Zelusnoti s hydroponichya pestovaniya semenacku lesnich drevin: Experience with hydroponic growing of forest tree seedlings*
Pospisil, J; Koutnik, Y
Lesnictvi 20 (7): 665-686. Ref. Eng. sum. July 1974
99.9 C334
Language: CZE
Search: 19740700
Doc Type: ARTICLE
Cat Code: 3515
- 589047 Id No: 72-9042338
1.962 C5771 Soilless container system developed for growing conifer seedlings
White, D P; Schneider, G
Free Planters' Notes 23 (1): 1-4. Feb 1972
1.962 C5771
Search: 19720200
Source: USDA Doc Type: ARTICLE
Cat Code: 3515

1180423

20.5 P872 Id No: 76-9110242

Oziedzczenie systemow korzeniowych jeczmenia. II. Meksziki rozmarow systemu korzeniowego odmian Gryf, Lubuski i Skrzyszowski. Posnacych w kulturach wodnych: Inheritance of barley root systems. II. Indices of roots dimension of cultivars Gryf, Lubuski and Skrzyszowski grown in water culture

Krzyzowski, Z; Wojcik-Wojkowiak, D; Borys, M W; Strolinski, A ; Moctechowski, J

Pr Poznan Tow Przyj Nauk Wydz Nauk Roln Legn 41: 231-238. Eng. sum. 1976

20.5 P872

Language: POL

Search: 19760000

Doc Type: ARTICLE

Cat Code: 4025; 4035

795389

58126-5.15 1973 Id No: 74-9004223

Risultati di un quadriennio di sperimentazione sul miglioramento genetico delle piante per la coltura idroponica e prospettive future: Results of a four years experimentation on the genetic improvement of plants for hydroponic culture and outlook for the future

Panella, A

In International Congress on Soilless Culture, 3d, Sassari, 1973. Proceedings 3d: 175-185. Eng. sum. 1973

58126-5.15 1973

Language: ITA

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Cat Code: 4025

1213854

Q4431-A1525 Id No: 77-9016255

Využití hydroponie ve stětní jarního jecmene: The use of hydroponics in spring barley breeding

Ruzicka, F

Genet Stětní 11 (3): 255-261. Eng. sum. June 1975

Q4431-A1525

Language: CZE

Search: 19760000

Doc Type: ARTICLE

Cat Code: 4025

1180422

20.5 P872 Id No: 76-9110241

Oziedzczenie systemow korzeniowych jeczmenia. I. splyw poziomu potasu i fosforu na wzrost jeczmenia cv.

Skrzeszowski, Z; Wojcik-Wojkowiak, D; Borys, M W; Strolinski, A; Moctechowski, J; Sorys, M W; Krzyzowski, Z; Strolinski, A; Wojcik-Wojkowiak, D

Pr Poznan Tow Przyj Nauk Wydz Nauk Roln Legn 41: 225-230. Eng. sum. 1976

20.5 P872

Language: POL

Search: 19760000

Doc Type: ARTICLE

Cat Code: 4025; 4035

PLANT PHYSIOLOGY AND BIOCHEMISTRY - GENERAL

583540

24 EA74 Id No: 73-9151458

Observations on the water culture technique for studying the effects of copper concentrations on Arabica coffee seedlings

Aduavi, E A

East Afr Agr Forest J 38 (1): 62-69. Ref. July 1972

24 EA74

Search: 19720700

Doc Type: ARTICLE

Cat Code: 4030

587495

20 ERA Id No: 72-9070894

Dynamics of the contents of plastid pigments in several plants grown hydroponically and in soil

Bazhanova, N V; Gavenkian, A G

Akad Nauk Arm SSR Izv Biol Nauk 24 (2): 112-113. Feb 1971

20 ERA

Language: RU5

Search: 19710200

Doc Type: ARTICLE

Cat Code: 4030

933414

275-29 Id131dc NO.259 Id No: 75-9657439 Book Cat: 75008117

Hydroponic culture of plants

Boe, A A

Moscow 2 p. 111us. 1974

275-29 Id131dc NO.259

75008117

Series: Idaho, University, Cooperative Extension Service.

Idaho current information series, no. 259 Search: 19740000

Source: EXT Doc Type: MONOGRAPH

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Descriptors: Hydroponics.

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Cat Code: 4050
Descriptors: Hydroponics.; Greenhouse Management.

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Cat Code: 4055

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Aliev, E A; Novikov, A I; Kadysh, G; Martynenko, V D
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Language: RUS
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Cat Code: 4055

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Descriptions: Vegetables; U.S.S.R.; Greenhouse Cultivation;
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Hydroponic gardening: the "magic" of modern hydroponics for
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Briddell, Raymond
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Language: RUS
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Doc Type: ARTICLE
Cat Code: 4055

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